

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 April 2004 (01.04.2004)

PCT

(10) International Publication Number
WO 2004/026207 A3

(51) International Patent Classification⁷: **A61F 15/02**

(21) International Application Number:
PCT/GB2003/004040

(22) International Filing Date:
19 September 2003 (19.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0221806.3 19 September 2002 (19.09.2002) GB

(71) Applicant and

(72) Inventor: **ROSS, David, J.** [GB/GB]; 31 Birkhill Road,
Cambusbarron, Stirling FK7 9LA (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MILLER, George**
[GB/GB]; 23 Marchbank Gardens, Balerno, Midlothian
EH14 7ET (GB).

(74) Agents: **MACDOUGALL, Donald, Carmichael** et al.;
Cruikshank & Fairweather, 19 Royal Exchange Square,
Glasgow G1 3AE (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

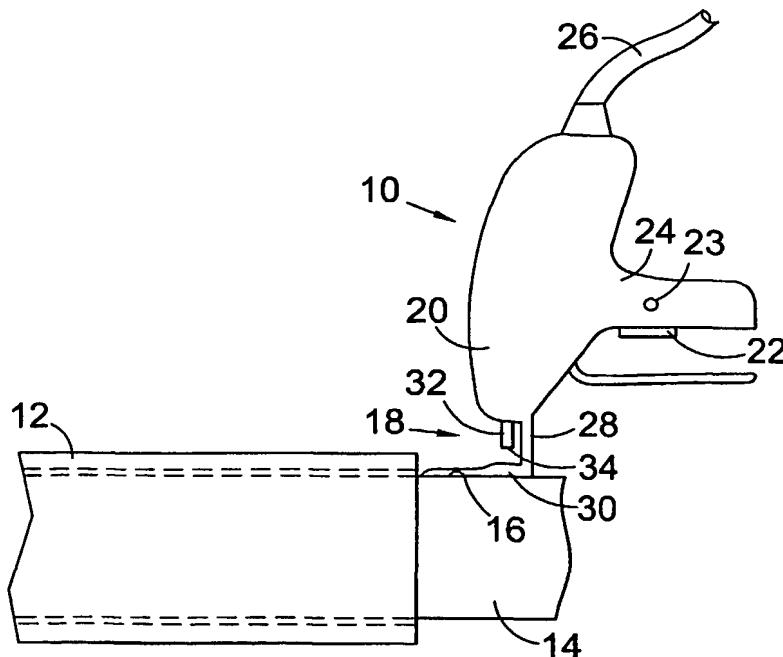
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
12 August 2004

[Continued on next page]

(54) Title: **CAST-CUTTER**



(57) Abstract: A cast-cutter for use in removing a cast from a patient comprises a body (20), cutting means (18, 148, 230) supported by the body (20), and a protection member (16, 204, 206, 236, 244) supported by the body (20) and adapted to be positioned between the cutting means (18, 148, 230) and the patient, to protect the skin of the patient. In one disclosed embodiment the cutting means cuts a cast by a shearing action. In another disclosed embodiment the cutting means cuts a cast by an abrading action.

BEST AVAILABLE COPY

WO 2004/026207 A3

WO 2004/026207 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY

0310

21 MAR 2004

10/528555

INTERNATIONAL SEARCH REPORT

International Application No
PC 1/GB: 03/04040

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61F15/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NL 44 070 C (EERHARD-AANDEWIEL) 15 September 1938 (1938-09-15) page 2, line 2 - line 7; claims 1-5; figures 3-5	1-11, 13-19, 21-23, 26-32, 34,36-51
A	US 3 533 161 A (MAGNIN GEORGES) 13 October 1970 (1970-10-13) column 2, line 67 - column 3, line 2	5
A	JP 58 130040 A (UEDA KIYOSHI) 3 August 1983 (1983-08-03) figures	15-17, 22,23
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "Z" document member of the same patent family

Date of the actual completion of the international search

26 January 2004

Date of mailing of the international search report

14.06.2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Mirza, A

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/04040

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 396 397 A (3M SANTE LAB SOC) 7 November 1990 (1990-11-07) abstract; figures -----	22,23
A	DE 84 15 363 U (AESCULAP-WERKE) 30 August 1984 (1984-08-30) page 8, paragraph 2 - page 11, paragraph 1 -----	40-49
A	GB 2 068 829 A (SAITO S) 19 August 1981 (1981-08-19) abstract -----	40-49

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/04040

BEST AVAILABLE COPY

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-51

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-51

cast-cutter comprising a body, shearing cutting means and a protection member

2. claims: 52-66

cast-cutter comprising a body, abrading cutting means and a protection member

REST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

 In International Application No
 PCT/GB 03/04040

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
NL 44070	C	NONE	
US 3533161	A	13-10-1970 CH 458619 A	30-06-1968
JP 58130040	A	03-08-1983 NONE	
EP 0396397	A	07-11-1990 FR 2646597 A1	09-11-1990
		AU 627573 B2	27-08-1992
		AU 5454490 A	08-11-1990
		BR 9002022 A	13-08-1991
		CA 2015704 A1	02-11-1990
		DE 69005353 D1	03-02-1994
		EP 0396397 A1	07-11-1990
		KR 9700474 Y1	24-01-1997
		US 5020226 A	04-06-1991
DE 8415363	U	NONE	
GB 2068829	A	19-08-1981 JP 1122674 C	12-11-1982
		JP 56102243 A	15-08-1981
		JP 57011659 B	05-03-1982
		DE 3101363 A1	24-12-1981
		FR 2473878 A1	24-07-1981
		SE 8100217 A	19-07-1981

BEST AVAILABLE COPY